

عنوان مقاله:

مکان یابی مناسب برای استفاده از انرژی باد در کشور

محل انتشار:

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خلاصه مقاله:

Wind energy itself not new and water and wind mills powered the world's first industries over 2000 years ago. Now with new technology and new materials, modern turbines are being used to generate the clean electricity that we all need for lighting, heating, refrigerators and other appliances. The European Union has called for an increase in the contribution of renewable energy sources from 4 percent to 8 percent of total energy demand by 2005. Today wind energy projects across Europe produce enough electricity to meet the domestic needs of 5 million people by 2010. Today environmental problems such as air pollution are increased due to the wide using of fossil fuels and nuclear power. All over the world governments are trying to reduce these problems. We have to use renewable and clean energy such as wind, water and sun in creating a cleaner and sustainable future. Wind energy is a clean energy. It causes no harmful pollution during operation it produces: No carbon dioxide (a gas that contributes to global warming). No sulfur dioxide or nitrogen oxides (gases that contribute to acid rain). No hazardous or radioactive wastes. In this article, some stations are selected for using wind energy by evaluating their powers in Iran. It is used some statistical methods such as weibull distribution with meteorological information. Wind speed and wind direction play important role in determining wind energy.

کلمات کلیدی:

biomass, downstream, fluctuation, geothermal, high pressure, land breeze, low pressure, newton-raphson method, power, rayleigh distribution, sea breeze, turbulence, vortex, weibull

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